	1 0 11 11 11		
	Application No.	Applicant(s)	
N .	10/086,605	YU, SHINN-SHENG	
Notice of Allowability	Examiner	Art Unit	
	Kripa Sagar	1756	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31:	nears on the cover sheet with the GOR REMAINS) CLOSED in this of the communication of the communication is subjection is subjection is subjection is subjection is subjection is subjection in the communication is subjection in the coverage of the coverage	s application. If not included ation will be mailed in due course	e. THIS he initiative
1. This communication is responsive to <u>2/13/04</u> .			
2. The allowed claim(s) is/are <u>1-15</u> .		•	
3. The drawings filed on 13 February 2004 are accepted by	the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application N	lo	om the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a revENT of this application.	eply complying with the requirem	nents
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv	nitted. Note the attached EXAMINes reason(s) why the oath or dec	NER'S AMENDMENT or NOTICI claration is deficient.	E OF
 CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the sheet. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 	son's Patent Drawing Review (P 's Amendment / Comment or in the distance of the header according to 37 CFR 1.0 sit of BIOLOGICAL MATER!	he Office action of rawings in the front (not the back) 121(d). AL must be submitted. Note th	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☑ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date 4. ☑ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summ Paper No./Mail 08), 7. ⊠ Examiner's Ame	Date	,

Art Unit: 1756

DETAILED ACTION

Response to Amendment

1. The amendment filed 2/13/04 has been entered. Claims 1,10,11,15,16 are amended; no new matter has been introduced. Claims 1-20 are under consideration.

Drawings

2. The drawings were received on 2/13/04. These drawings are accepted.

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with attorney Randy Tung on 5/20.04.

The application has been amended as follows:

In the specification: p.16;lines 6,7: change "502" to "702" (one occurrence). Change "504" to "704" (two occurrences).

In the claims: Cancel claims 16-20.

Claims 1-15 are under consideration.

Claim Rejections

4. Claims rejections presented in the previous office action are withdrawn.

Allowable Subject Matter

5. Claims 1-15 are allowed.

Art Unit: 1756

6. The following is an examiner's statement of reasons for allowance:

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Amended independent claims 1,11 recite opaque isolated / random features with assist patterns and off-axis illumination (OAI).

As argued by Applicant Hasegawa's phase shifted mask with assist features is not suited to OAI and Yasuzato's semi-dense pattern is transparent or phase-shifted. The teachings cannot be modified to produce the instant claims.

US Pat. 5422205 to Inoue teaches patterning isolated or random line-and-space patterns (and contact holes) using opaque patterns (clearfield mask) with assist features (see fig.10-12). However the dummy features are not sub-resolution and require subsequent elimination by a second exposure.

Claims 2-10,12,15 are allowable at least for their dependence from claims 1,11 respectively.

Response to Arguments

7. Applicant's arguments have been considered in the allowance.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kripa Sagar whose telephone number is 571-272-1392. The examiner can normally be reached on M-F.

Application/Control Number: 10/086,605

Art Unit: 1756

Page 4

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark F Huff can be reached on 571-272-1385. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MH/ks

MARK F. HOFF SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700